

I claim:

1. A bicycle transport rack comprising:

a hitch connector end having a hole for receiving a standard hitch pin;

an extender bar having forward and rearward ends, said forward end rigidly mounted to extending rearward from said hitch connector end; and

one or more mounting rod assemblies extending vertically upward from said extender bar.

2. The bicycle transport rack of claim 1 wherein said rod assembly comprises a rod having an external diameter less than the inside diameter of a bicycle seat mounting tube.

3. The bicycle transport rack of claim 1 wherein said rod assembly comprises:

an internal rod having a lower end proximate to said extender rod, said internal rod having a larger external diameter at said lower end and an externally threaded portion above said lower end;

a wing nut threaded onto said threaded portion proximate to said lower end;

a flange assembly placed around said threaded portion and above said wing nut;

and

a top cap attached to a top end of said threaded portion above said flange assembly.

4. The bicycle transport rack of claim 1 further comprising a receiver hitch attached to said rearward end of said extender rod.

5. The bicycle transport rack of claim 1 further comprising a washer threaded onto said threaded portion above said wing nut and below said flange assembly.

6. The bicycle transport rack of claim 1 wherein said flange assembly comprises:

one or more expandable flanges and one or more substantially non-compressible bushings.

7. The bicycle transport rack of claim 6 wherein said expandable flanges are made from rubber.

8. The bicycle transport rack of claim 6 wherein said expandable flanges are made from expandable metal.

9. The bicycle transport rack of claim 6 wherein said expandable flanges are comprised of a collet.

10. The bicycle transport rack of claim 1 further comprising a hinge intersecting said extender bar at or near said forward end of said extender bar, said hinge opening so as to permit said rearward end of said extender bar to swing downward.

11. A bicycle transport rack comprising:

a hitch connector end having a hole for receiving a standard hitch pin;

an extender bar having forward and rearward ends, said forward end rigidly mounted to extending rearward from said hitch connector end;

one or more mounting rod assemblies extending vertically upward from said extender bar, each of said mounting rod assemblies comprising:

an internal threaded bolt having a lower end extending through and below said extender bar;

a spacer rod placed around said internal threaded bolt and rising above said extender bar;

a washer placed around said internal threaded bolt above said spacer rod;

a flange assembly placed around said internal threaded bolt and above said washer;

a top cap attached to a top end of said internal threaded bolt above said flange assembly;  
and

a cam nut threaded onto said internal threaded bolt below said extender bar.

12. The bicycle transport rack of claim 11 further comprising a receiver hitch attached to said rearward end of said extender rod.

13. The bicycle transport rack of claim 11 wherein said flange assembly comprises:

one or more expandable flanges and one or more substantially non-compressible bushings.

14. The bicycle transport rack of claim 11 further comprising a hinge intersecting said extender bar at or near said forward end of said extender bar, said hinge opening so as to permit said rearward end of said extender bar to swing downward.

15. The bicycle transport rack of claim 11 wherein said cam nut further comprises a handle.

16. The bicycle transport rack of claim 11 further comprising a washer placed around said internal threaded bolt between said cam nut and said extender bar.

17. The bicycle transport rack of claim 11 wherein said spacer rod is about six inches long.

18. The bicycle transport rack of claim 1 wherein said extender bar is a hollow square tubing.

19. The bicycle transport rack of claim 11 wherein said extender bar is a hollow square tubing.

20. The bicycle transport rack of claim 13 wherein said expandable flange is made of rubber.